Title (en)

STORED DATA OBJECT MARKING FOR GARBAGE COLLECTORS

Title (de)

MARKIERUNG VON GESPEICHERTEN DATENOBJEKTEN FÜR GARBAGE-KOLLEKTOREN

Title (fr)

MARQUAGE D'OBJETS DE DONNEES MEMORISES POUR PROGRAMMES RECUPERATEURS

Publication

**EP 1036355 A2 20000920 (EN)**

Application

**EP 99923792 A 19990610**

Priority

- GB 9813266 A 19980620
- IB 9901088 W 19990610

Abstract (en)

[origin: WO9967697A2] A data processing method and apparatus are described for mark-sweep garbage collection through stored data structures defined by data objects in a multi threading environment supporting the handling of finalisers. The sweeping stage (GC) consists of a linear sweep across the heap in which any objects with a mark-state of Deletable are deleted (D1), whilst objects with finalisers and mark-state of Pending are placed on a finaliser queue and marked. The number of objects with finalisers is tracked and compared with the known total allocated to the heap. If not all finalisable objects are found, a further marking (MA) operation (D5-D6) is required to identify all objects reachable by finalisers. However, if all finalisable objects are found by the first marking operation (D1-D5), as indicated by a match between the found and stored totals, the marked unreachable objects may all be deleted (D5) in a single pass.

IPC 1-7

**G06F 1/00**

IPC 8 full level

**G06F 12/00** (2006.01); **G06F 12/02** (2006.01)

CPC (source: EP KR US)

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Citation (search report)

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